Fields
- **FieldID**: INTEGER
- FieldName: STRING
- Area: FLOAT
- PolygonData: STRING
- Location: STRING

Animals
- **AnimalID**: INTEGER
- Age: INTEGER
- Breed: STRING
- Sex: STRING
- Status: STRING

Buildings
- **BuildingID**: INTEGER
- BuildingType: STRING
- PurchaseValue: FLOAT
- DepreciationPeriod: INTEGER
- CurrentValue: FLOAT
- Location: STRING
- Capacity: INTEGER
- InsuranceValue: FLOAT
- InsuranceCost: FLOAT
- InsuranceProvider: STRING

EconomicMetrics
- **MetricID**: INTEGER
- MetricType: STRING
- Value: FLOAT
- Timestamp: TIMESTAMP

CropRotation
- **RotationID**: INTEGER
- FieldID: INTEGER
- Crop: STRING
- Season: STRING
- Yield: FLOAT

SoilAnalysis
- **AnalysisID**: INTEGER
- FieldID: INTEGER
- pH: FLOAT
- SoilType: STRING
- NutrientLevels: STRING
- OrganicMatter: FLOAT

WeatherData
- **WeatherID**: INTEGER
- FieldID: INTEGER
- Date: DATE
- Rainfall: FLOAT
- Temperature: FLOAT

Land
- **LandID**: INTEGER
- FieldID: INTEGER
- TaxValue: FLOAT
- SaleMultiplier: FLOAT
- CalculatedSaleValue: FLOAT
- InsuranceValue: FLOAT
- InsuranceCost: FLOAT
- InsuranceProvider: STRING

Pastures
- **PastureID**: INTEGER
- FieldID: INTEGER
- AnimalID: INTEGER
- Season: STRING

FeedingPlans
- **FeedingPlanID**: INTEGER
- AgeGroup: STRING
- FeedType: STRING
- QuantityPerDay: FLOAT
- CostPerUnit: FLOAT

AnimalBuildings
- **BuildingID**: INTEGER
- BuildingType: STRING
- Capacity: INTEGER
- AnimalID: INTEGER

Tasks
- **TaskID**: INTEGER
- FieldID: INTEGER
- EmployeeID: INTEGER
- MachineryID: INTEGER
- TaskType: STRING
- StartTime: TIMESTAMP
- EndTime: TIMESTAMP
- DriverName: STRING

Machinery
- **MachineryID**: INTEGER
- Type: STRING
- PurchaseValue: FLOAT
- DepreciationRate: FLOAT
- ResidualValue: FLOAT
- UsageHours: INTEGER
- NextMaintenance: INTEGER
- InsuranceValue: FLOAT
- InsuranceCost: FLOAT
- InsuranceProvider: STRING

Resources
- **ResourceID**: INTEGER
- TaskID: INTEGER
- ResourceType: STRING
- Quantity: FLOAT
- CostPerUnit: FLOAT
- PropertyType: STRING

Income
- **IncomeID**: INTEGER
- SourceType: STRING
- SourceID: INTEGER
- Amount: FLOAT
- Date: DATE

AnimalTasks
- **TaskID**: INTEGER
- AnimalID: INTEGER
- EmployeeID: INTEGER
- TaskType: STRING
- StartTime: TIMESTAMP
- EndTime: TIMESTAMP
- Worker: STRING

MaintenanceSchedule
- **ScheduleID**: INTEGER
- MachineryID: INTEGER
- ScheduledHours: INTEGER
- ServiceType: STRING
- EstimatedCost: FLOAT

MaintenanceRecords
- **RecordID**: INTEGER
- MachineryID: INTEGER
- ServiceDate: DATE
- ServiceType: STRING
- ServiceCost: FLOAT
- Notes: TEXT

Employees
- **EmployeeID**: INTEGER
- Name: STRING
- Role: STRING
- HourlyRate: FLOAT
- Schedule: STRING

Relationships:
- Fields 1:N CropRotation
- Fields 1:1 SoilAnalysis
- Fields 1:N WeatherData
- Fields 1:1 Land
- Fields 1:N Pastures
- Fields 1:N Tasks
- Animals 1:N Pastures
- Animals 1:N FeedingPlans
- Animals 1:N AnimalBuildings
- Animals 1:N AnimalTasks
- Buildings 1:N AnimalBuildings
- Land 1:N Tasks
- Tasks N:1 Machinery
- Tasks 1:N Resources
- Tasks N:1 Income
- Tasks 1:N AnimalTasks
- Machinery 1:N MaintenanceSchedule
- Machinery 1:N MaintenanceRecords
- AnimalTasks N:1 Employees
- Tasks N:1 Employees